

Listing of Claims

1. - 43. (cancelled)

1 44. (new) A method for making a glued-together screen assembly for use in
2 a vibratory separator, the method employing a heating apparatus, the heating
3 apparatus comprising a control system, a plurality of heating elements spaced-apart
4 on the heating apparatus, and a plurality of heat sensors, the plurality of heat sensors
5 spaced-apart and movable to a position adjacent the at least one layer of screening
6 material, the plurality of heat sensors in communication with the control system, the
7 method comprising

8 producing at least one layer of screening material with glue on the
9 surface thereof,

10 placing the at least one layer of screening material on the heating
11 apparatus,

12 heating the at least one layer of screening material with the
13 heating apparatus,

14 placing a secondary member on the at least one layer of screening
15 material,

16 sensing with the plurality of heat sensors temperatures of different
17 portions of the at least one layer of screening material during heating thereof,

18 controlling the plurality of spaced-apart heating elements with the
19 control system in response to temperatures sensed by the plurality of heat
20 sensors to control heat applied to the different portions of the at least one layer
21 of screening material during heating thereof, and

22 heating together the at least one layer of screening material and
23 the secondary member to combine the at least one layer of screening material
24 and the at least one secondary member forming a first screen assembly.

1 45. (new) The method of claim 44 further comprising

2 controlling the plurality of spaced-apart heating elements to
3 uniformly heat the at least one layer of screening material.

1 46. (new) The method of claim 44 further comprising

2 the at least one layer of screening material comprising a plurality
3 of layers of screening material.

1 47. (new) The method of claim 44 wherein the at least one layer of screening
2 material is a layer of coarse mesh.

1 48. (new) The method of claim 44 wherein glue on the at least one layer of
2 screening material is cured glue prior to placing the at least one layer of screening
3 material on the heating apparatus.

1 49. (new) The method of claim 44 wherein the glue is moisture-curing hot melt
2 glue.

1 50. (new) The method of claim 44 wherein the secondary member is a frame
2 for a screen assembly.

1 51. (new) The method of claim 50 wherein the frame comprises an array of
2 tubular members.

1 52. (new) The method of claim 50 wherein the frame is coated with adhesive
2 material.

1 53. (new) The method of claim 52 wherein the secondary member is heated
2 sufficiently so that at least some of the adhesive material flows onto the at least one
3 layer of screening material to adhere together the secondary member and the at least
4 one layer of screening material.

1 54. (new) The method of claim 52 wherein the adhesive material is powderized
2 epoxy material.

1 55. (new) The method of claim 44 further comprising
2 removing the first screen assembly from the heating apparatus,
3 emplacing the first screen assembly on first cooling apparatus
4 adjacent the heating apparatus, and
5 cooling the first screen assembly with the first cooling apparatus.

1 56. (new) A method for making a screen assembly for use in a vibratory
2 separator, using a system with heating apparatus and first cooling apparatus, the first
3 cooling apparatus comprising a base on which a screen assembly is emplaceable and
4 a top platen movable with respect to the base, and supply apparatus for supplying
5 cooling fluid to the base and to the top platen for cooling a screen assembly, the

6 method comprising
7 producing at least one layer of screening material with glue
8 thereon,
9 placing the at least one layer of screening material on the heating
10 apparatus,
11 heating the at least one layer of screening material with the
12 heating apparatus,
13 placing a frame on the at least one layer of screening material on
14 the heating apparatus,
15 heating together the at least one layer of screening material and
16 the frame to combine the at least one layer of screening material and the frame
17 forming a screen assembly,
18 removing the first screen assembly from the heating apparatus,
19 emplacing the first screen assembly on the first cooling apparatus
20 adjacent the heating apparatus, and
21 cooling the first screen assembly with the first cooling apparatus,
22 cooling the first screen assembly with the first cooling apparatus
23 further comprising
24 emplacing the first screen assembly on the base,
25 moving the top platen down onto the first screen assembly, and
26 supplying cooling fluid to the base and to the top platen with the
27 supply apparatus to cool the first screen assembly.

1 57. (new) The method of claim 56 wherein the first screen assembly is cooled
2 to about 88°F in about 2 to 4 minutes.